

## miniflow®

### Applications

Slurry feed pump for miniflux® and minimag®

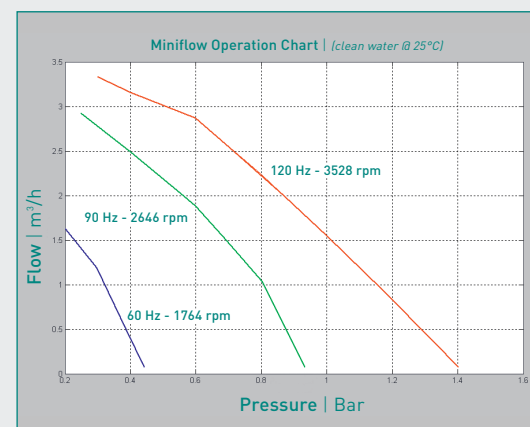
### Advantages

High efficiency, high flexibility, reliability, wide ranges in feed solids concentration, easy to operate

### Technology

- submersible impeller pump
- the impeller speed is adjustable through a frequency inverter
- particle size ≤ 4 mm (3/16")

operation chart  
60 Hz | 90 Hz | 120 Hz



## Keys to a successful future

allmineral solutions focus on our customers' individual demands, the situation in the marketplace, and the quality of the raw materials. The results are tailor-made solutions, generated in close cooperation with our clients – economically and technically perfect processes. We devote particular attention to the core process – separation – as this determines the quality of the end product.

Over our many years of experience, we have developed a number of patented machines that have proven themselves around the world in a variety of beneficiation processes for raw and waste materials. All these systems, which offer unsurpassed efficiency and flexibility, make intelligent use of the

laws of physics and natural elements, water and air.

This brochure provides further information about the **aljig**®, **allflux**® and the **gaustec**® pilot plants, which perfectly simulate the machines and processes in use around the world.

These pilot systems, which perfectly replicate processes in the allmineral plants, allow users to create targeted and lifelike simulations and thereby perform exact pre-testing. Processing, for example, can be tested realistically so that users do not have to rely on solely theoretical calculations. An innovative solution for all technical planning processes and targeted process simulation for process testing and development.



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minijig® | miniflux® | miniflow® | minimag®

Product Information for pilot plant equipment



## minijig®

### Applications

Ore, coal, gravel, sand, industrial minerals, crushed stones, shredded material, metal, slag, rubble, recycling materials

### Advantages

High efficiency, large feed size range, sharp separation, reliability, easy to operate

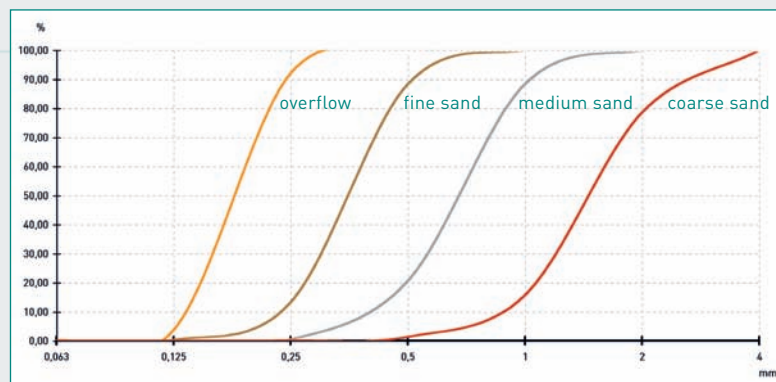
### Technology

- Jig for stratification tests in batch
- air-pulsed jig with minimum energy consumption
- jiggling stroke control by rotary valve
- operation parameters adjustable during operation
- particle size ranges from 50 mm [2"] to 1 mm [16 mesh]

### Capacity

- 30 - 50 kg per batch

material bedding of iron ore  
after | before jiggling



size distribution sand products



## miniflux®

### Applications

Sand, ore, coal, heavy mineral sands, slag

### Advantages

Classifying, separating, thickening and desliming in one step, high efficiency, wide ranges in feed solids concentration, easy to operate

### Technology

- fluidized bed separator for the production of 3 classified products
- fluidized bed with autogenous heavy media
- particle size  $\leq 4$  mm [3/16"]
- separation of light particles from fine materials
- fully automatic process control
- no moving parts

### Capacity

- up to 300 kg/h

## minimag®

### Applications

Iron ore (hematite, goethite), ilmenite, chrome ore, manganese ore, tungsten ore and other paramagnetic resp. feebly magnetic minerals

### Advantages

High efficiency, high flexibility, sharp separation, reliability, easy to operate

### Technology

- Wet High Intensity Magnetic Separator with a maximum of flexibility
- separates ores and other paramagnetic and feebly magnetic minerals with a particle size up to 3 mm.
- the high gradient magnetic field is adjustable in a wide range through an AC/DC converter.
- the rotor speed is adjustable from 3 to 7 rpm through a frequency inverter.

### Capacity

- up to 300 kg/h



minimag® Matrix | Industrial Matrix